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	ANSMITTAL LETTER TO	ATTORNEY'S DOCKET NUMBER					
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371			112857-608 U.S. APPLICATION NO. (If known, see 37 CFR 1.5)				
			L PRIORITY DATE OF AMED				
	TIONAL APPLICATION NO. JP2005/005312	INTERNATIONAL FILING DATE March 16, 2005	PRIORITY DATE CLAIMED March 19, 2004				
TITLE OF INVENTION STIMULI-RESPONSIVE HYDROGEL, PRODUCTION METHOD OF STIMULI-RESPONSIVE HYDROGEL, AND POLYMER ACTUATOR USING STIMULI-RESPONSIVE HYDROGEL							
APPLICANT(S) FOR DO/EO/US Hidetoshi Ito et al.							
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
1. X	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2. 🗆 -	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
3. ×	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4.	The US has been elected (Article 31).						
5. X	A copy of the International Application	as filed (35 U.S.C. 371(c)(2))					
	a. x is attached hereto (required only if not communicated by the International Bureau).						
	b. has been communicated by the International Bureau.						
	c. is not required, as the application was filed in the United States Receiving Office (RO/US).						
6. ×	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).						
	a. x is attached hereto.						
:	b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7. X	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
	a. are attached hereto (required only if not communicated by the International Bureau).						
	b. have been communicated by the International Bureau.						
	c. have not been made; however, the time limit for making such amendments has NOT expired.						
	d. x have not been made and will not be made.						
8. 🔲	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. X	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	annexes of the International Preliminary E	xamination Report under PCT				
Items 11 to 20 below concern document(s) or information included:							
11. X	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.					
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
13. X	A preliminary amendment.						
14. 🔀	An Application Data Sheet under 37 CFR 1.76.						
15. ×	A substitute specification.						
16.	A power of attorney and/or change of address letter.						
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.						
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).						
19.	A second copy of the English language	e translation of the international application	under 35 U.S.C. 154(d)(4).				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	INTERNATIONAL AF		ATTORNEY'S DOCKET NUMBER 112857-608				
20. Other items or information: Forms PCT/IB/301; PCT/IB/304; PCT/ISA/220; PCT/ISA/210; PCT/ISA/237							
The following fees have been submitted	CALCULATIONS	PTO USE ONLY					
21. 🗵 Basic national fee (37 CFR 1.492(a))		\$300	\$300				
22. x Examination fee (37 CFR 1.492(c))							
If the written opinion prepared by ISA/US or the interna by IPEA/US indicates all claims satisfy provision All other situations	\$200						
23. Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International IPEA/US indicates all claims satisfy provisions Search fee (37 CFR 1.445(a)(2)) has been paid on the International Searching Authority International Search Report prepared by an ISA other to previously communicated to the US by the IB All other situations	\$400						
TOTAL OF 21, 22 and 23 =	900.00						
Additional fee for specification and drawings filed in sequence listing in compliance with 37 CFR 1.4 electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets or							
	dditional 50 or fraction RATE to a whole number)		ig.				
- 100 = /50 =		× \$250	\$	ı			
Surcharge of \$130.00 for furnishing any of the search f after the date of commencement of the national stage	\$						
CLAIMS NUMBER FILED	NUMBER EXTRA	RATE	\$				
Total claims - 20 =		x \$ 50	\$				
Independent claims - 3 =		× \$200	\$				
MULTIPLE DEPENDENT CLAIM(S) (if applicable)	\$	ļ. <u></u>					
	\$						
Applicant claims small entity status. See 37 CFR 1							
	\$						
Processing fee of \$130.00 for furnishing the English tra- claimed priority date (37 CFR 1.492(i)).	\$						
	\$						
Fee for recording the enclosed assignment (37 CFR 1by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40	\$						
	\$						
	Amount to be refunded:	\$					
			Amount to be charged	\$ 900.00			

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. A check in the amount of \$ __ to cover the above fees is enclosed. Please charge my Deposit Account No. 02-1818 in the amount of \$ 900.00 to cover the above fees. A duplicate copy of this sheet is enclosed. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-1818. A duplicate copy of this sheet is enclosed. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. SEND ALL CORRESPONDENCE TO: Thomas C. Basso SIGNATURE Bell, Boyd & Lloyd LLC Thomas C. Basso NAME P.O. Box 1135 46,541 Chicago, IL 60690-1135 REGISTRATION NUMBER